



#9/B

## SEQUENCE LISTING

&lt;110&gt; Bandaru, Rajasekhar

<120> 68730 and 69112, Protein Kinase  
Molecules and Uses Therefor

&lt;130&gt; MPI2000-521P1R(M)

&lt;140&gt; US/10/024,036

&lt;141&gt; 2001-12-17

&lt;150&gt; 60/258222

&lt;151&gt; 2000-12-22

&lt;160&gt; 10

&lt;170&gt; FastSEQ for Windows Version 4.0

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&lt;211&gt; 1772

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (1)...(168)

&lt;221&gt; CDS

&lt;222&gt; (169)...(1242)

&lt;221&gt; 3'UTR

&lt;222&gt; (1243)...(1772)

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&lt;223&gt; n may be A, T, G, or C.

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 65 70 75 80  
 Ile Val Ala Leu Glu Asp Ile Tyr Glu Ser Pro Asn His Leu Tyr Leu  
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 Lys Gly Phe Tyr Thr Glu Lys Asp Ala Ser Thr Leu Ile Arg Gln Val  
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 145 150 155 160  
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 Val Met Ser Thr Ala Cys Gly Thr Pro Gly Tyr Val Ala Pro Glu Val  
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 Lys Trp Arg Gln Ala Phe Asn Ala Thr Ala Val Val Arg His Met Arg  
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 Phe Leu Pro Pro Tyr Trp Asp Asn Ile Ser Asp Ala Ala Lys Asp Leu  
 575 580 585  
 gtg agc cgg ttg ctg gtg gta gac ccc aaa aag cgc tac aca gct cat 3027  
 Val Ser Arg Leu Leu Val Val Asp Pro Lys Lys Arg Tyr Thr Ala His  
 590 595 600 605  
 cag gtt ctt cag cac ccc tgg atc gaa aca gct ggc aag acc aat aca 3075  
 Gln Val Leu Gln His Pro Trp Ile Glu Thr Ala Gly Lys Thr Asn Thr  
 610 615 620  
 gtg aaa cga cag aag cag gtg tcc ccc agc agc gag ggt cac ttc cgg 3123  
 Val Lys Arg Gln Lys Gln Val Ser Pro Ser Ser Glu Gly His Phe Arg  
 625 630 635  
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 Ser Gln His Lys Arg Val Val Glu Gln Val Ser \*  
 640 645  
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 <212> PRT  
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 35 40 45  
 Lys Gly Asp His Arg Cys Gly Glu Thr Glu Thr Pro Lys Ser Cys Ser  
 50 55 60  
 Glu Val Ala Gly Cys Lys Ala Ala Met Arg His Gln Gly Lys Ile Pro  
 65 70 75 80  
 Glu Glu Leu Ser Leu Asp Asp Arg Ala Arg Thr Gln Lys Lys Trp Gly  
 85 90 95  
 Arg Gly Lys Trp Glu Pro Glu Pro Ser Lys Pro Pro Arg Glu Ala  
 100 105 110  
 Thr Leu Glu Glu Arg His Ala Arg Gly Glu Lys His Leu Gly Val Glu  
 115 120 125  
 Ile Glu Lys Thr Ser Gly Glu Ile Ile Arg Cys Glu Lys Cys Lys Arg  
 130 135 140  
 Glu Arg Glu Leu Gln Gln Ser Leu Glu Arg Glu Arg Leu Ser Leu Gly  
 145 150 155 160  
 Thr Ser Glu Leu Asp Met Gly Lys Gly Pro Met Tyr Asp Val Glu Lys  
 165 170 175  
 Leu Val Arg Thr Arg Ser Cys Arg Arg Ser Pro Glu Ala Asn Pro Ala  
 180 185 190  
 Ser Gly Glu Glu Gly Trp Lys Gly Asp Ser His Arg Ser Ser Pro Arg  
 195 200 205  
 Asn Pro Thr Gln Glu Leu Arg Arg Pro Ser Lys Ser Met Asp Lys Lys  
 210 215 220  
 Glu Asp Arg Gly Pro Glu Asp Gln Glu Ser His Ala Gln Gly Ala Ala  
 225 230 235 240  
 Lys Ala Lys Lys Asp Leu Val Glu Val Leu Pro Val Thr Glu Glu Gly  
 245 250 255  
 Leu Arg Glu Val Lys Lys Asp Thr Arg Pro Met Ser Arg Ser Lys His  
 260 265 270  
 Gly Gly Trp Leu Leu Arg Glu His Gln Ala Gly Phe Glu Lys Leu Arg





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<212> PRT

<213> Artificial Sequence

<220>

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(Prosite Accession No. PS00107)

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<223> Xaa can be any amino acid except Pro.

<221> VARIANT

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<223> Xaa can be any amino acid except Pro.

<221> VARIANT

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<223> Phe can be Tyr, Trp, Met, Gly, Ser, Thr, Asn, or His.

<221> VARIANT

<222> 7

<223> Ser can be Gly or Ala.

<221> VARIANT

<222> (8)...(8)

<223> Xaa can be any amino acid except Pro or Trp.

<221> VARIANT

<222> (9)...(9)

<223> Leu can be Ile, Val, Cys, Ala, or Thr.

<221> VARIANT

<222> (10)...(10)

<223> Xaa can be any amino acid except Pro or Asp.

<221> VARIANT

<222> (11)...(11)

<223> Xaa can be any amino acid.

<221> VARIANT

<222> (12)...(12)

<223> Gly can be Ser, Thr, Ala, Cys, Leu, Ile, Val, Met, Phe, or Tyr.

<221> VARIANT  
 <222> (13)...(13)  
 <223> Xaa can be any amino acid and as few as 5 and as many as 18 amino acids.

<221> VARIANT  
 <222> (14)...(14)  
 <223> Leu can be Ile, Val, Met, Phe, Tyr, Trp, Cys, Ser, Thr, Ala, or Arg.

<221> VARIANT  
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 <223> Ala can be Ile, Val, or Pro.

<221> VARIANT  
 <222> (16)...(16)  
 <223> Leu can be Ile, Val, Met, Phe, Ala, Gly, Cys, Lys, or Arg.

<221> BINDING  
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<220>  
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 (Prosite Accession No. PS00108)

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 <223> Leu can be Ile, Val, Met, Phe, or Tyr

<221> VARIANT  
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 <223> Xaa can be any amino acid.

<221> VARIANT  
 <222> 3  
 <223> His can be Tyr.

<221> VARIANT  
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<221> ACT\_SITE  
 <222> 5

<221> VARIANT  
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<221> VARIANT  
 <222> (8)...(9)  
 <223> Xaa can be any amino acid.

<221> VARIANT  
 <222> (11)...(11)  
 <223> Leu can be Ile, Val, Met, Phe, Tyr, Cys, or Thr.

<221> VARIANT  
 <222> (12)...(12)  
 <223> Leu can be Ile, Val, Met, Phe, Tyr, Cys, or Thr.

<221> VARIANT  
 <222> (13)...(13)  
 <223> Leu can be Ile, Val, Met, Phe, Tyr, Cys, or Thr.

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 <211> 13  
 <212> PRT  
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<220>  
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 Accession No. PS00109;

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<221> VARIANT  
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 <223> Xaa can be any amino acid.

<221> VARIANT  
 <222> 3  
 <223> His can be Tyr.

<221> VARIANT  
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<221> ACT\_SITE  
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<221> VARIANT  
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 <223> Arg can be Ser, Thr, Ala, or Cys.

<221> VARIANT  
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 <223> Xaa can be any amino acid.

<221> VARIANT  
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<221> VARIANT  
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<221> VARIANT  
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 <223> Leu can be Ile, Val, Met, Phe, Tyr, or Cys.

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<210> 10  
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 <213> Artificial Sequence  
  
 <220>  
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           PS00007)  
  
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 <221> VARIANT  
 <222> 2  
 <223> Xaa can be any amino acid and can be two or three  
           amino acids  
  
 <221> VARIANT  
 <222> 3  
 <223> Asp can be Glu.  
  
 <221> VARIANT  
 <222> 4  
 <223> Xaa can be any amino acid and can be two or three  
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